

ABSTRACT OF THE DISCLOSURE

The resin in a fiber-reinforced resin material that uses a single fiber reinforcing ply or a number of fiber reinforcing plies for reinforcing the resin material is reinforced by dispersing carbon nanofibers therein, whereby a fiber-reinforced composite resin material having improved strength such as compressive strength is provided. In a carbon nanofiber-dispersed resin fiber-reinforced composite material 1, an uncured resin 4 having carbon nanofibers 5 dispersed therein is impregnated into a number of fiber reinforcing plies 2a laid one upon another. Upon curing the resin 4, the strength of the matrix 3 itself is increased through the carbon nanofibers 5 dispersed in the resin 4. Moreover, the fiber reinforcement 2 and the resin 4 are joined together strongly by the carbon nanofibers 5, and hence the strength of the composite material, for example the compressive strength, which hitherto has been dependent on the strength of the resin 4 only, is improved.